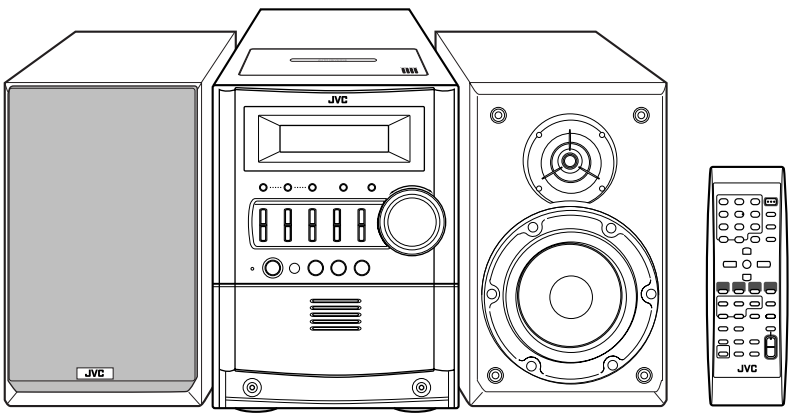
JVC

MICRO COMPONENT SYSTEM

UX-G5 —Consists of CA-UXG5 and SP-UXG5



COMPACT disc DIGITAL AUDIO

MP3 PLAYBACK

INSTRUCTIONS

LVT1349-003A
[UJ]

Warnings, Cautions and Others

CAUTION— ⏻/I (standby/on) button!
Disconnect the mains plug to shut the power off completely (all lamps and indications go off). The ⏻/I button in any position does not disconnect the mains line.
- When the unit is on standby, the STANDBY lamp lights in red.
- When the unit is turned on, the STANDBY lamp goes off.

The power can be remote controlled.

CAUTION
To reduce the risk of electrical shocks, fire, etc.:
1. Do not remove screws, covers or cabinet.
2. Do not expose this appliance to rain or moisture.

CAUTION
- Do not block the ventilation openings or holes. (If the ventilation openings or holes are blocked by a newspaper or cloth, etc., the heat may not be able to get out.)
- Do not place any naked flame sources, such as lighted candles, on the apparatus.
- When discarding batteries, environmental problems must be considered and local rules or laws governing the disposal of these batteries must be followed strictly.
- Do not expose this apparatus to rain, moisture, dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. **CAUTION**: Do not open the top cover. There are no user serviceable parts inside the Unit; leave all servicing to qualified service personnel.
3. **CAUTION**: Visible and invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED INSIDE UNIT.

CAUTION : Visible and invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)

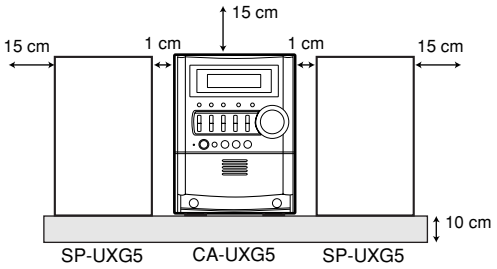
ADVARSEL : Synlig og usynlig laserstråling når maskinen er åben eller interlocken fejler. Undgå direkte eksponering til stråling. (d)

VARNING : Synlig och osynlig laserstrålning när den öppnas och spärren är urkopplad. Betrakta ej strålen. (s)

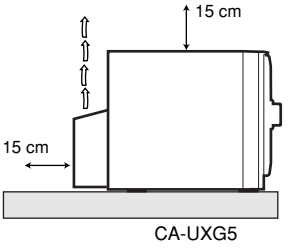
VARO : Avattaessa ja suojalukitus ohitettuna tai viallisena olet alttiina näkyvälle ja näkymättömälle lasersäteilylle. Vältä säteen kohdistumista suoraan itseesi. (f)

Caution: Proper Ventilation
To avoid risk of electric shock and fire, and to prevent damage, locate the apparatus as follows:
1. Front: No obstructions and open spacing.
2. Sides/ Top/ Back: No obstructions should be placed in the areas shown by the dimensions below.
3. Bottom: Place on the level surface. Maintain an adequate air path for ventilation by placing on a stand with a height of 10 cm or more.

Front



Side



About the cooling fan
A cooling fan is mounted on the rear panel of the unit to prevent abnormal temperature inside the unit, thus assuring normal operation of the unit. The cooling fan automatically starts rotating to intake external cool air when the volume is increased up to more than a certain level.

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Introduction

Precautions

Installation

- Install in a place which is level, dry and neither too hot nor too cold—between 5°C and 35°C.
- Install the System in a location with adequate ventilation to prevent internal heat buildup inside the System.

STOP! DO NOT install the System in a location near heat sources, or in a place subject to direct sunlight, excessive dust or vibration.

- Leave sufficient distance between the System and the TV.
- Keep the speakers away from the TV to avoid interference with TV.

Power sources

- When unplugging the System from the wall outlet, always pull on the plug, not the AC power cord.

STOP! DO NOT handle the AC power cord with wet hands.

Moisture condensation

Moisture may condense on the lenses inside the System in the following cases:

- After starting to heat the room
- In a damp room
- If the System is brought directly from a cold to a warm place

Should this occur, the System may malfunction. In this case, leave the System turned on for a few hours until the moisture evaporates, unplug the AC power cord, then plug it in again.

Internal heat

- A cooling fan is mounted on the rear panel to prevent heat buildup inside the main unit (see page G-1).

STOP!

For safety, observe the following carefully:

- Make sure there is good ventilation around the main unit. Poor ventilation could overheat and damage the System.
- DO NOT block the cooling fan and the ventilation openings or holes. If they are blocked by a newspaper or cloth, etc., the heat may not be able to get out.

Others

- Should any metallic object or liquid fall into the System, unplug the AC power cord and consult your dealer before operating any further.

STOP! DO NOT disassemble the System since there are no user serviceable parts inside.

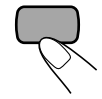
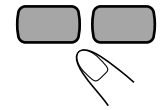
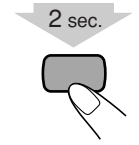
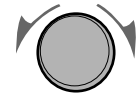
- If you are not going to operate the System for an extended period of time, unplug the AC power cord from the wall outlet.

If anything goes wrong, unplug the AC power cord and consult your dealer.

How to Read This Manual

To make this manual as simple and easy-to-understand as possible, we have adapted the following methods:

- Button and control operations are explained as listed in the table below. In this manual, the operations using the remote control is mainly explained; however, you can use the buttons and controls on the main unit if they have the same (or similar) name and marks.
- **Some related tips and notes are explained later in the sections "Learning More about This System" and "Troubleshooting," but not in the same section explaining the operations.** If you want to know more about the functions, or if you have a doubt about the functions, go to these sections and you will find the answers.

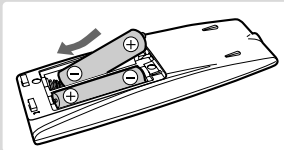
	Indicates that you press the button **briefly**.
	Indicates that you press the button **briefly and repeatedly** until an option you want is selected.
	Indicates that you press one of the buttons.
	Indicates that you **press and hold** the button for specified seconds. • The number inside the arrow indicates the period of press (in this example, 2 seconds). • If no number is inside the arrow, press and hold until the entire procedure is complete or until you get a result you want.
	Indicates that you turn the control toward the specified direction(s).

	Indicates that this operation is only possible using the remote control.
	Indicates that this operation is only possible using the buttons and controls on the main unit.

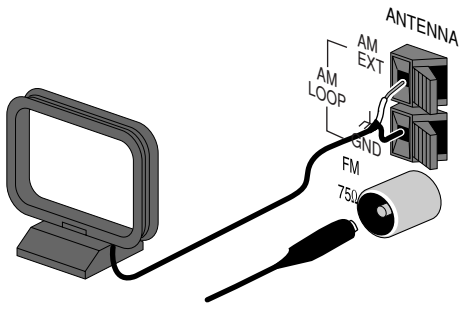
Getting Started

Step *1*: Unpack the package and check the accessories.

Step *2*: Prepare the remote control.



Step *3*: Hook up the components such as AM/FM antennas, speakers, etc. (see pages 4 to 6).



Finally plug the AC power cord.

Now you can operate the System.

Step *1*: Unpack

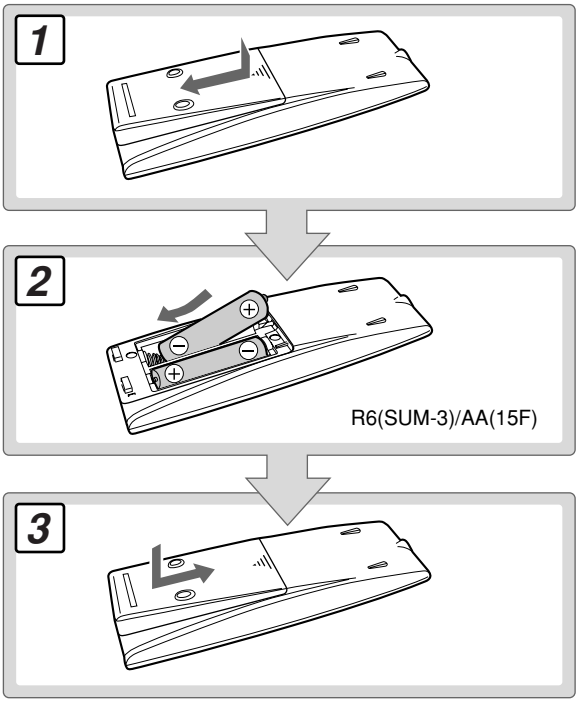
After unpacking, check to be sure that you have all the following items. The number in parentheses indicates the quantity of each piece supplied.

- FM antenna (1)
- AM loop antenna (1)
- Remote control (1)
- Batteries (2)
- AC plug adapter (1)

If any item is missing, consult your dealer immediately.

Step *2*: Prepare the Remote Control

Insert the batteries into the remote control by matching the polarity (+ and –) correctly.



STOP!

- DO NOT use an old battery together with a new one.
- DO NOT use different types of batteries together.
- DO NOT expose batteries to heat or flame.
- DO NOT leave the batteries in the battery compartment when you are not going to use the remote control for an extended period of time. Otherwise, the remote control will be damaged from battery leakage.

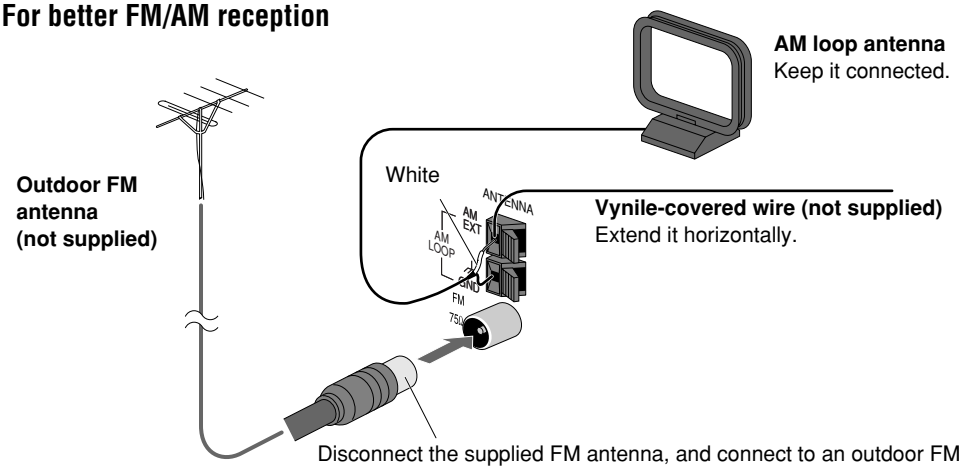
Step 3: Hook Up

If you need more detailed information, see page 6.

Illustrations of the input/output terminals below are typical examples.
When you connect other components, refer also to their manuals since the terminal names actually printed on the rear may vary.

Turn the power off to all components before connections.

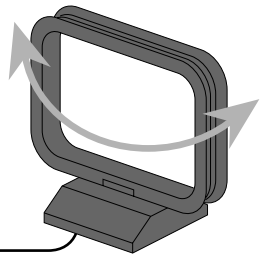
For better FM/AM reception


AM loop antenna
Keep it connected.
White
Vynile-covered wire (not supplied)
Extend it horizontally.
Outdoor FM antenna (not supplied)
ANTENNA
AM EXT
AM LOOP
GND
FM 75Ω
Disconnect the supplied FM antenna, and connect to an outdoor FM antenna using a 75 Ω wire with coaxial type connector.

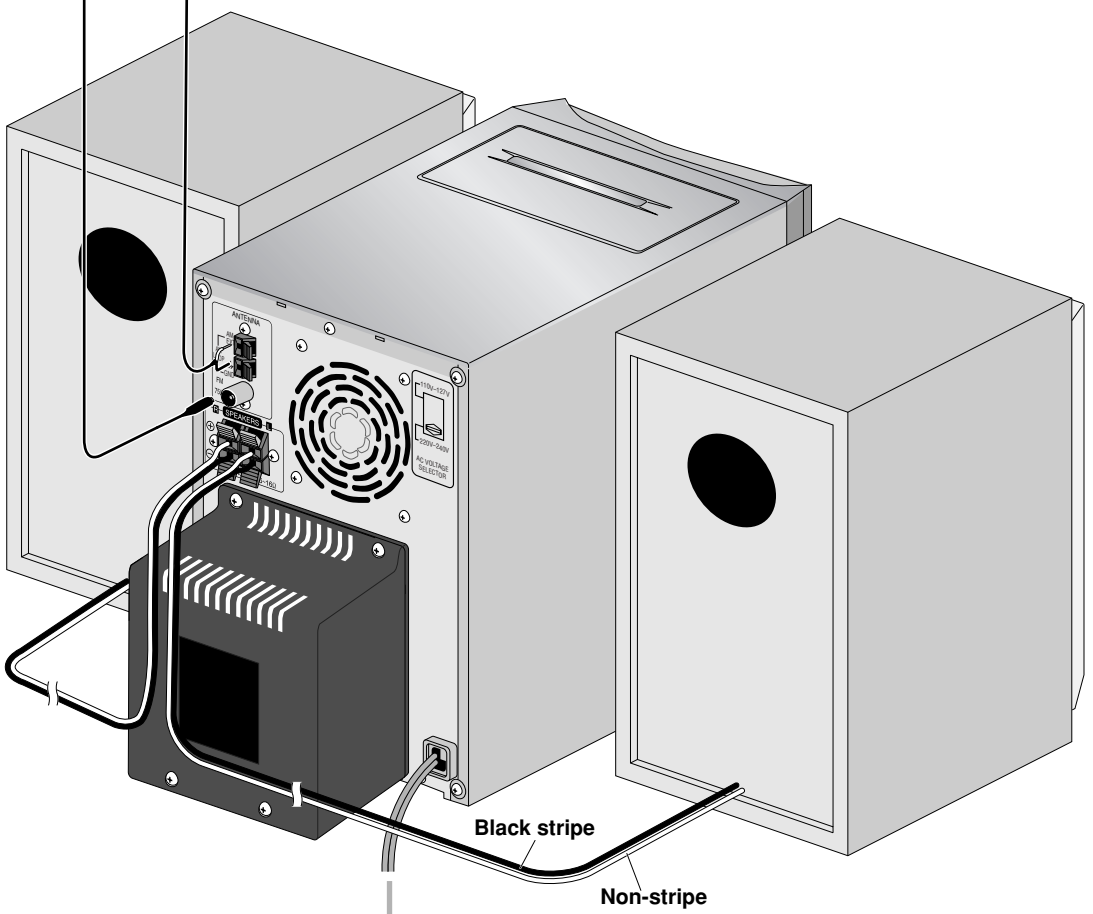
To a wall outlet
Plug the AC power cord only after all connections are complete.
- If the wall outlet does not match the AC plug, use the supplied AC plug adapter.

FM antenna (supplied)

Extend it so that you can obtain the best reception.

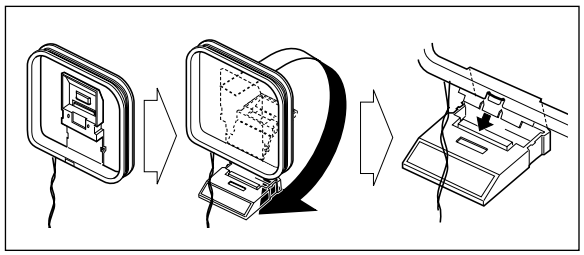


AM loop antenna (supplied)
Turn it until the best reception is obtained.



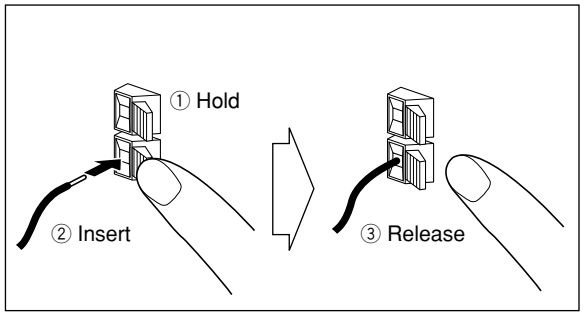
To assemble and connect the AM loop antenna

To assemble the AM loop antenna



To connect the AM loop antenna

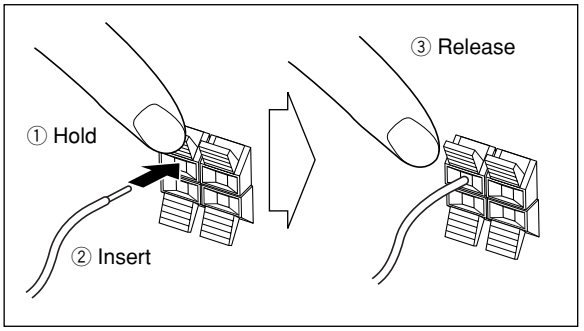
Make sure to connect the wire correctly: The white end to AM EXT, the black end to GND.



- If the AM loop antenna wire or speaker cords are covered with vinyl, remove the vinyl to expose the tip of the antenna by twisting the vinyl.
- Make sure the antenna conductors do not touch any other terminals, connecting cords and power cord. Also, keep the antennas away from metallic parts of the System, connecting cords, and the AC power cord. This could cause poor reception.

To connect the speaker cords

Make sure the both speakers are connected correctly and firmly.



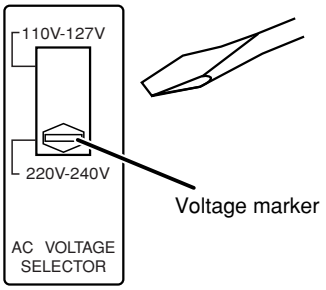
When connecting the speaker cords, match the polarity of the speaker terminals: The cord with black stripe to (–), the cord without stripe to (+).

STOP!

- DO NOT connect more than one speaker to each terminal.
- DO NOT allow the conductor of the speaker cords to be in touch with the metallic parts of the System.

Adjusting the voltage selector

Use a screwdriver to slide the voltage selector so that the voltage marker is pointing at the same voltage as where you are plugging in the unit. (See also the back cover page.)

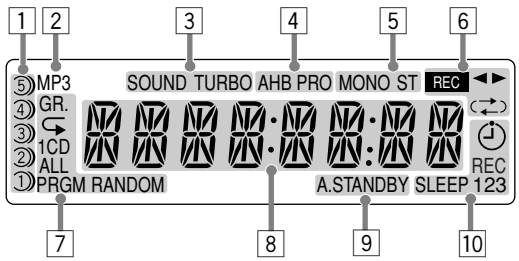


STOP!

DO NOT plug in before setting the voltage selector on the rear of the unit and all connection procedures are complete.

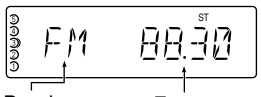
Before Operating the System

The indications on the display teach you a lot of things while you are operating the System.
Before operating the System, be familiar with when and how the indicator illuminates on the display.



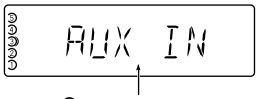
Indications on the main display

• While listening to radio:



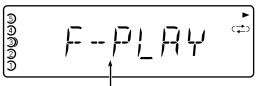
Band Frequency

• While selecting AUX:



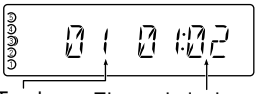
Source name

• While playing a TAPE:



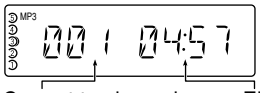
Tape direction *1

• While playing a CD:



Track number Elapsed playing time

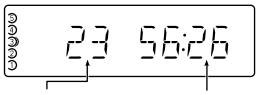
• While playing an MP3*2:



Current track number Elapsed playing time

• While disc play is stopped:

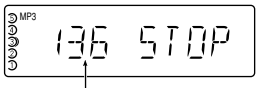
CD:



Total track number Total playing time

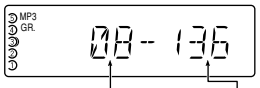
MP3:

• While in "TRACK" mode:



Total track number

• While in "GROUP" mode:



Total group number Total track number

*1 While playing back a tape, "F-PLAY (Forward play)" or "R-PLAY (Reverse play)" appears on the display.

*2 When you start playing an MP3 disc, the group number, track number, track name, (and ID3 Tag) will be shown before the elapsed playing time appears.

1 Disc tray indicators
- 1–5: Disc tray number
- ○ : Tray indicator
  – Lights when the disc is detected.
  – Blinking while playing back a disc.
  – Goes off when there is no disc in the tray.
- ○ : Shows the current disc.

2 MP3 indicator
- Lights when an MP3 disc is detected.

3 SOUND TURBO indicator
- Lights when the SOUND TURBO is activated (see page 13).

4 AHB PRO (Active Hyper Bass Pro) indicator
- Lights when the AHB PRO is activated.

5 FM reception indicators
- MONO: Lights while the FM monaural mode is activated.
- ST (stereo): Lights while an FM stereo station with sufficient signal strength is tuned in.

6 Tape operation indicators
- **REC** indicator
  – Lights while recording.
- ◄► (tape direction):
  – Lights to indicate the current tape running direction.
  – Flashes slowly during playback and recording.
  – Flashes quickly while rewinding a tape.
- (Reverse mode):
  – : Tape play continues endlessly.
  – : Tape automatically reverses once.
  – : Tape play stops at the end of one side.

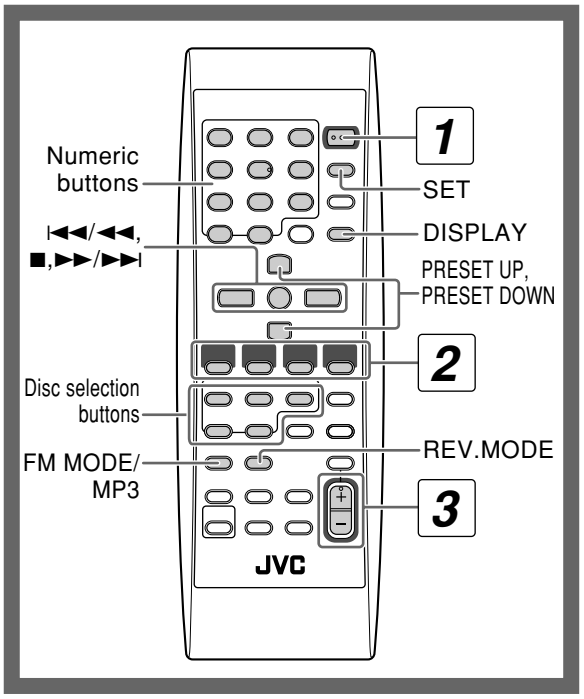
7 Disc operation mode indicators
- : Lights when Repeat mode is activated.
  – GR.: Repeats all the tracks in the selected group.
  – 1: Repeats the track.
  – CD: Repeats the disc.
  – ALL: Repeats all the discs.
- PRGM (program): Lights when Program Play mode is activated.
- RANDOM: Lights when Random Play mode is activated.

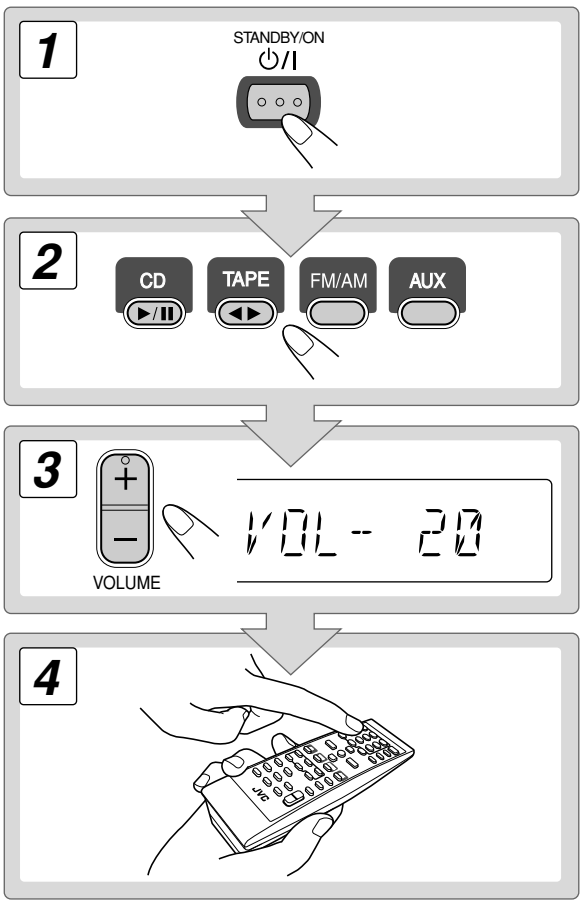
8 Main display

9 A(auto). STANDBY indicator
- Lights when Auto Standby is activated.
- Flashes when disc playback stops with Auto Standby activated.

10 Timer indicators
- : Lights when Daily Timer or Recording Timer stands by; flashes while working.
- 1/2/3: Lights when a Daily Timer (1, 2, or 3) stands by; flashes while setting or working.
- REC: Lights when the Recording Timer stands by; flashes while setting or working.
- SLEEP: Lights when the Sleep Timer is activated.

Daily Operations—Playback





1 Turn on the power.

The STANDBY lamp on the main unit turns off.

- Without pressing STANDBY/ON ⏻/I, the System turns on by pressing one of the source selecting buttons in the next step.

2 Select the source.

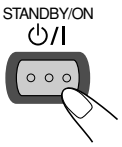
Playback automatically starts if the selected source is ready to start.

- If you press AUX, start playback source on the external component.

3 Adjust the volume.

4 Operate the target source as explained later.

To turn off (stand by) the System



The STANDBY lamp on the main unit lights up.

- A small amount of power is always consumed even while on standby.

For private listening

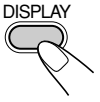
Connect a pair of headphones to the PHONES jack on the main unit. The sound will no longer come out of the speakers. Be sure to turn down the volume before connecting or putting the headphones.

- Disconnecting the headphones will activate the speakers again.

DO NOT turn off (stand by) the System with the volume set to an extremely high level; otherwise, the sudden blast of sound can damage your hearing, speakers and/or headphones when you turn on the System or start playback.

To turn off the clock indication

While the System is turned off...



- Press the button again, to display the clock indication.

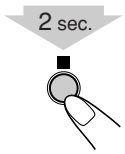
Listening to the Radio

To select the AM tuner interval spacing

Some countries space AM stations 9 kHz spacing, and other countries use 10 kHz spacing.

You can change the AM tuner intervals while the System is on stand by.

1

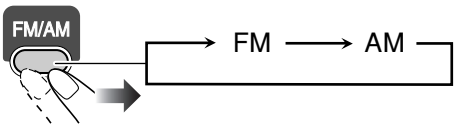


On the main unit

- Current interval setting appears on the display.

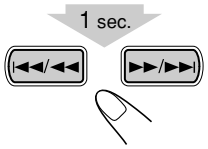
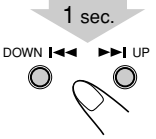
2 **Select the interval spacing while current setting appears on the display.**

To select the band (FM or AM)



To tune in to a station

While FM or AM is selected...

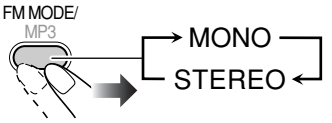
Remote control:	Main unit:
	

Frequency starts changing on the display.
When a station (frequency) with sufficient signal strength is tuned in, the frequency stops changing.

- When you repeatedly press the button, the frequency changes step by step.

To stop searching manually, press either button.

If the received FM station is hard to listen Remote ONLY



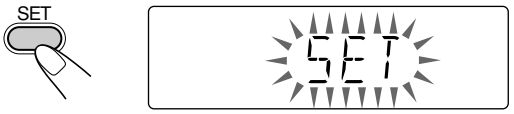
MONO:	Reception will improve though stereo effect is lost. MONO indicator lights up.
STEREO:	Normally select this. Stereo effect will be resumed.

To preset the stations Remote ONLY

You can preset 30 FM and 15 AM stations.

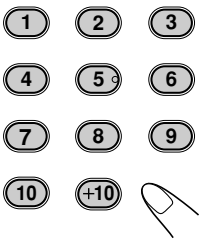
1 **Tune in to a station you want to preset.**

2 **Activate the preset number entry mode.**



- Finish the following process while the indication on the display is flashing.

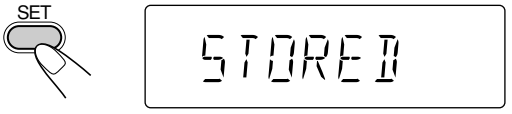
3 **Select a preset number for the station you store.**



Examples:
To select preset number 5, press 5.
To select preset number 15, press +10, then 5.
To select preset number 30, press +10, +10, then 10.

- You can also use the PRESET UP/PRESET DOWN buttons.

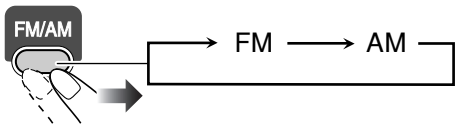
4 **Store the station.**



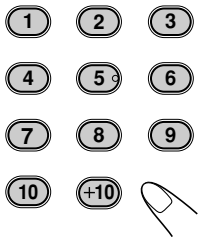
To tune in to a preset station

Remote ONLY

1 **Select a band (FM or AM).**



2 **Select a preset number for the station you store.**



• You can also use the PRESET UP or PRESET DOWN.

Playing Back a Disc

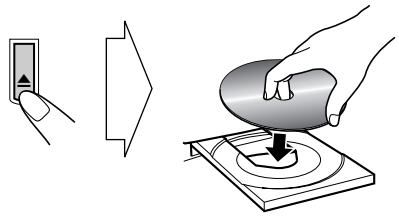
This System can play back the following discs—regular CD and CD-R/CD-RW (recorded either in the audio CD or MP3 format).

• **Caution for DualDisc playback**
The Non-DVD side of a "DualDisc" does not comply with the "Compact Disc Digital Audio" standard. Therefore, the use of Non-DVD side of a DualDisc on this product may not be recommended.

To insert a disc

Main Unit ONLY

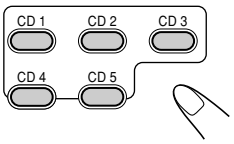
You can insert discs while playing another source.



To close the disc tray, press the same ⏏ again.

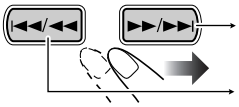
• When the current disc tray is open, pressing CD ►/II closes the tray and the playback starts.
• When you press ⏏ for the next tray you want to place another disc onto, the first disc tray automatically closes and then the next tray comes out.

To select a disc to be played back



To start:	To pause:	To stop:
	To release, press again.	

To select a track/group*



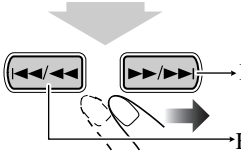
Increases the track/group* numbers.

Decreases the track/group* numbers.

* For details about the group selection, see "For MP3 playback" on page 11.

To locate a particular portion

While playing a disc, press and hold until the portion you want is reached.

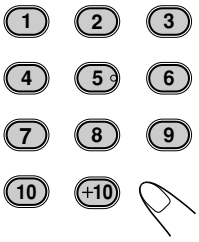


Fast-forwards the track.

Fast-reverses the track.

To locate a track directly and start play

Remote ONLY



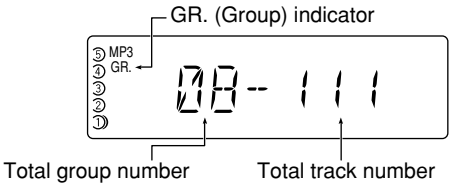
Examples:
To select track number 5, press 5.
To select track number 15, press +10, then 5.
To select track number 30, press +10, +10, then 10.

• For MP3 discs: with the "GROUP" mode (see page 11), you can select the tracks only within the current group.

For MP3 playback

According to the MP3 playback mode, I◄◄/◄◄, ►►/►►I or numeric buttons work for the group selection or the track selection.

Examples:
When the MP3 play back mode is "GROUP."



You can change the MP3 playback mode by pressing FM MODE/MP3.

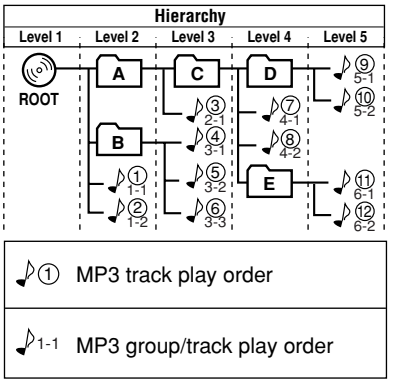
- Each time you press the button, the MP3 playback mode changes as follows:

TRACK ⟷ GROUP

TRACK:	• Only tracks are detected (groups are ignored). • I◄◄/◄◄, ►►/►►I, and numeric buttons work for the track selection of the MP3 discs.
GROUP:	• Both groups and tracks are detected. • I◄◄/◄◄, ►►/►►I, and numeric buttons work for the group selection of the MP3 discs. • Numeric buttons work for selecting the track numeric within the group.

MP3 groups/tracks configuration

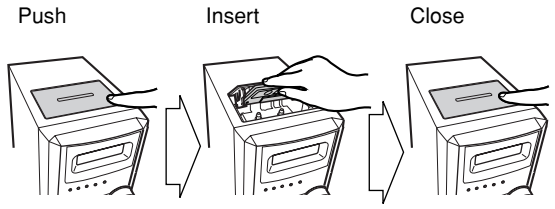
This System plays back MP3 tracks as follows.



Playing Back a Tape

To insert a tape

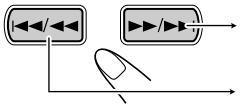
You can play back type I tapes.



With the tape side facing backside

To start:	To stop:

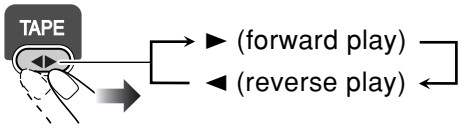
To rewind tape:



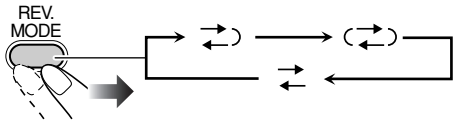
F-PLAY: wind forward the tape.
R-PLAY: rewind the tape.

F-PLAY: rewind the tape.
R-PLAY: wind forward the tape.

To change the tape running direction



To reverse the tape automatically

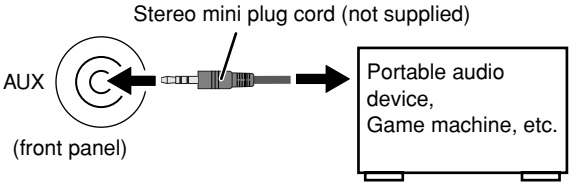


	Tape is played from the forward side to the reverse side. When the reverse side of the tape reaches its end, playback stops.
	Tape is automatically reversed, and playback repeats until you stop it.
	Tape will not be reversed. When the current side of the tape reaches its end, playback stops.

Playing Back Other Equipment

To connect other equipment

By using a stereo mini plug cord (not supplied), you can connect equipment with analog audio output jacks such as an MD player, or a TV, etc.



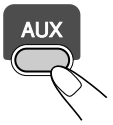
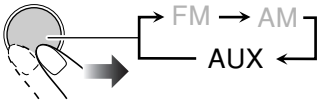
If the audio output on the other equipment is not stereo mini plug type,

Use a plug adapter to convert the stereo mini plug to the corresponding plug of the audio output.
Refer to the manuals supplied with the other equipment.

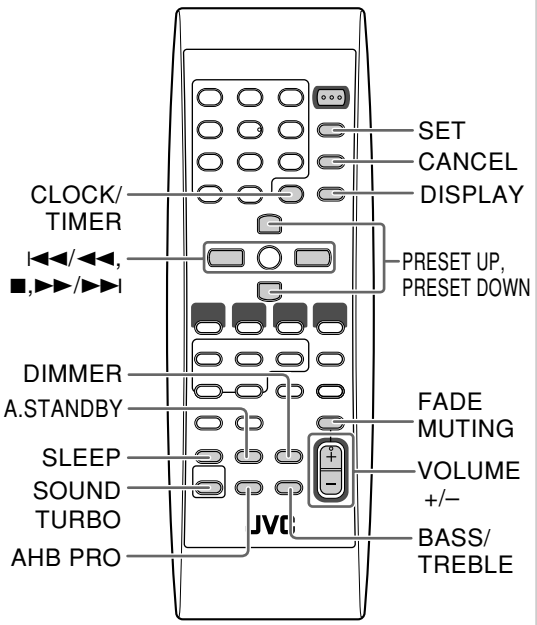
IMPORTANT

- Always set volume to "VOL-MIN" when connecting or disconnecting the other equipment.

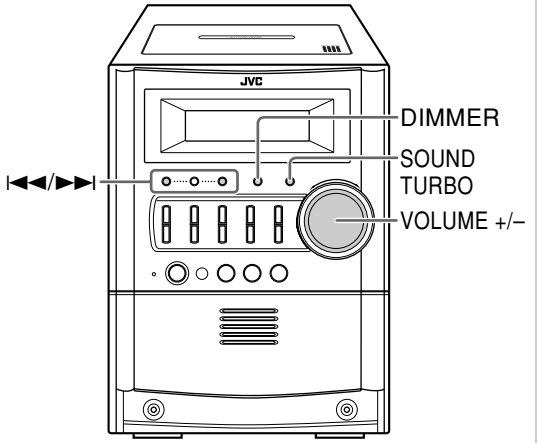
To select other equipment

Remote control:	Main unit:
	

Remote control

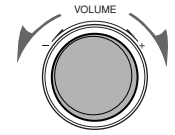


Main unit



Adjusting the Volume

You can adjust the volume level from level 0 (VOL-MIN) to level 31 (VOL-MAX).

Remote control:	Main unit:
	

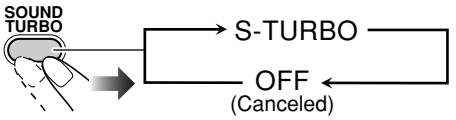
To drop the volume in a moment Remote ONLY

To restore the volume, press again, or adjust the volume level.

Adjusting the Sound

To emphasize the sound—SOUND TURBO

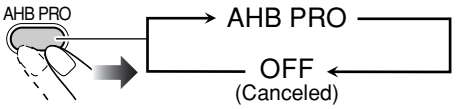
This function emphasizes the sound.



To reinforce the bass sound —AHB PRO

Remote ONLY

You can reinforce the bass sound to maintain rich, full bass at low volume.

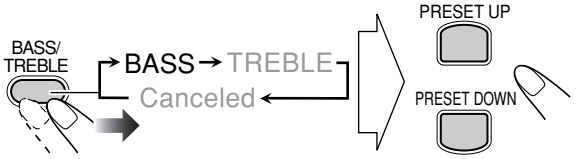


To adjust the tone—BASS/TREBLE

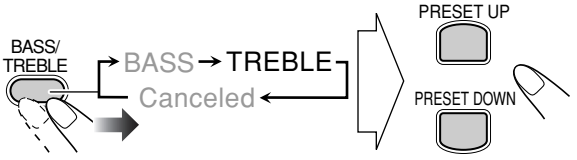
Remote ONLY

You can adjust the bass and treble level from 0 to +5.

To adjust the bass

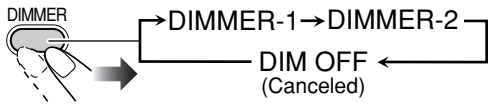


To adjust the treble



Changing the Display Brightness —DIMMER

You can dim the display window.



DIMMER-1	Dims the display illumination.
DIMMER-2	Erases the display illumination.

Setting the Clock

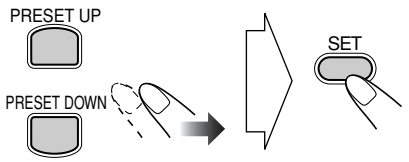
Without setting the built-in clock, you cannot use the Daily Timer (see page 20).

- To exit from the clock setting, press CLOCK/TIMER as required.
- To go back to the previous step, press CANCEL.

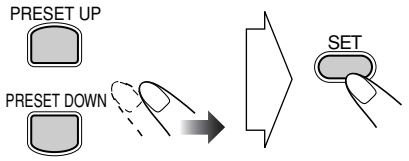
1 **Activate the clock setting mode.**

- If you have already adjusted the clock before, press the button repeatedly until the clock setting mode (see page 21) is selected.

2 **Adjust the hour.**

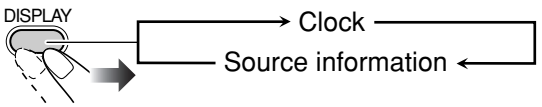


3 **Adjust the minute.**



"CLOCK OK" appears and the built-in clock starts working.

To check the current time during play

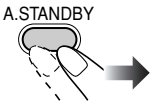


If there is a power failure

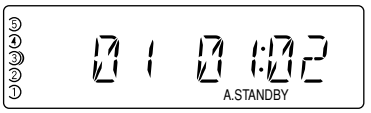
The clock loses the setting and is reset to "0:00." You need to set the clock again.

Turning Off the Power Automatically

To turn off the System after playback is over—Auto Standby



When Auto Standby is in use, the A.STANDBY indicator lights on the display.

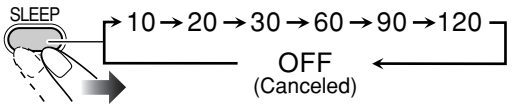


When the disc and tape playback stops, the A.STANDBY indicator starts flashing.
If no disc or tape operation is done for about 3 minutes while the indicator is flashing, the System turns off (stands by) automatically.

- Auto Standby only works after disc and tape playback.

To turn off the System after a certain period of time—Sleep Timer

1 **Specify the time (in minutes).**



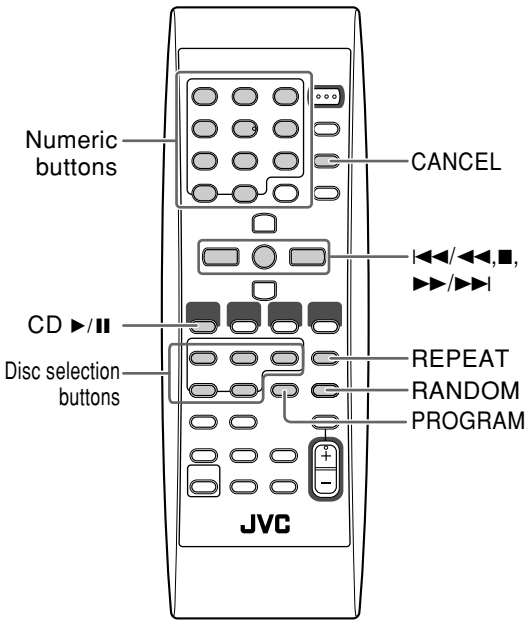
2 **Wait until the set time goes off.**

To check the time remaining until the shut-off time

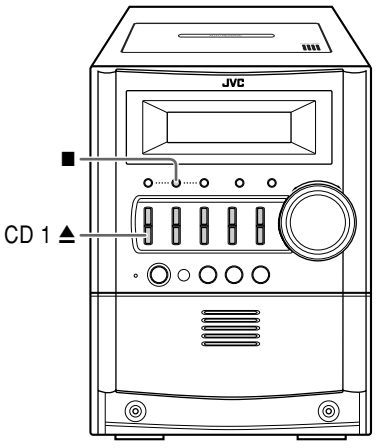
- If you press the button repeatedly, you can change the shut-off time.

Advanced Disc Operations

Remote control



Main unit



Programming the Playing Order— Program Play

Remote ONLY

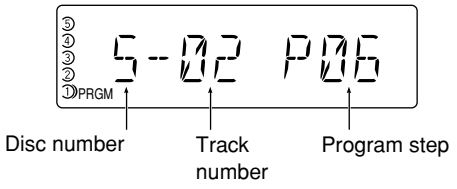
You can arrange the playing order of the tracks (up to 32) before you start playback.

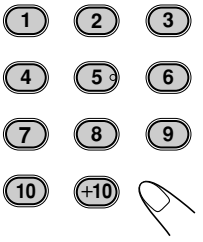
- You cannot enjoy MP3 discs for program play.
- You can repeat all the programmed tracks by pressing REPEAT.

1 **Before starting playback, press PROGRAM.**

2 **Select a disc by pressing CD 1 – CD 5.**

3 **Select tracks you want for Program Play.**





Examples:

To select track number 5, press 5.

To select track number 15, press +10, then 5.

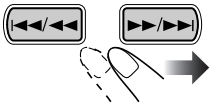
To select track number 30, press +10, +10, then 10.

4 **Repeat steps *2* and *3* to program the other tracks.**

- To select a track from the same disc, repeat step ***3***.

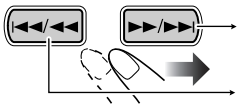
5 **Start playback.**

The tracks you have selected are played back in the order you have programmed.

To skip a track:	To pause:	To stop:
	To release, press again.	

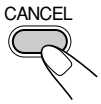
To check the programmed contents

While the PRGM indicator is shown on the display and before playback...



To modify the program

While the PRGM indicator is shown on the display and before playback...

To erase the last step:	To erase the entire program:
	
To add steps in the program:	
Repeat steps ***2*** and ***3*** on page 15.	

To exit from Program Play

While the PRGM indicator is shown on the display...

Pressing ■ also cancels Program Play.

- While in Program Play (PRGM indicator is shown on the display), you cannot open the disc trays. If no operation is done, Program Play is canceled and you can open the disc trays.

Playing at Random—Random Play

You can play back all the tracks on the selected disc at random.

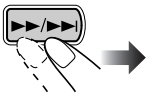
- You can repeat the current disc by pressing REPEAT.

1 **Select a disc by pressing CD 1 – CD 5.**
2 **Press RANDOM.**

Playback starts in random order.

- If "GROUP" mode is selected for the MP3 disc, it will be canceled.

Random Play ends when all tracks are played.

To skip a track:	To pause:	To stop:
	To release, press again.	

- Pressing I◄◄ goes to the beginning of the current track.

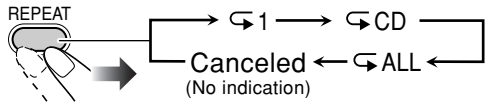
To exit from Random Play

While the RANDOM indicator is shown on the display...

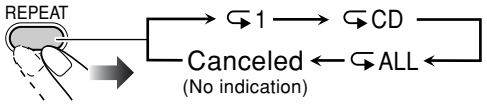
Playing Repeatedly—Repeat Play

You can repeat playback.

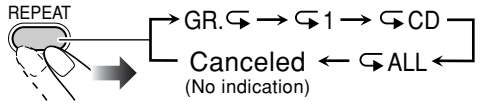
For CD:



For MP3 (Track mode):



For MP3 (Group mode):



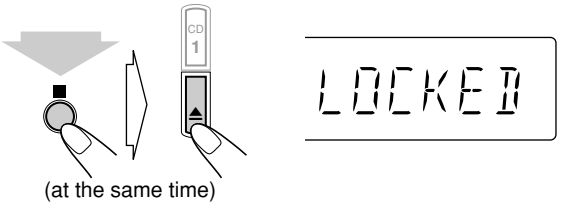
1	Repeats the current track.
CD	Repeats all the tracks on the current disc.
GR.	Repeats all the tracks in the current group (for MP3 playback mode in "GROUP" only).
ALL	Repeats all the discs.

Prohibiting Disc Ejection—Child Lock

You can lock the disc trays so that no one can eject the loaded discs.

• This is possible while the System is on standby.

While the disc trays are closed...

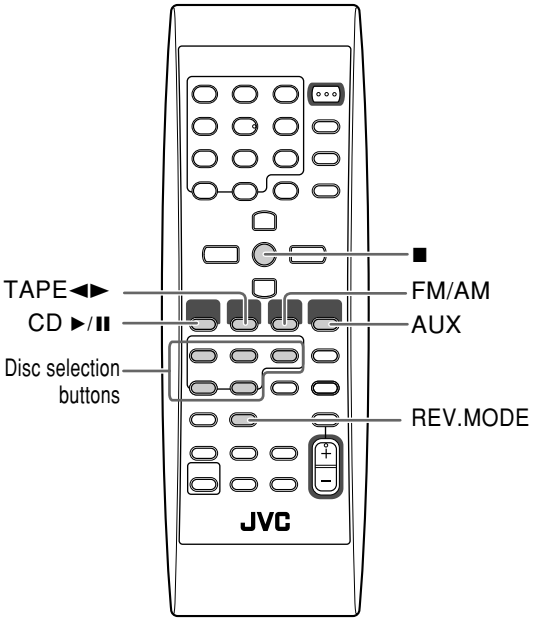


• Only CD 1 ⏏ can work for this function.

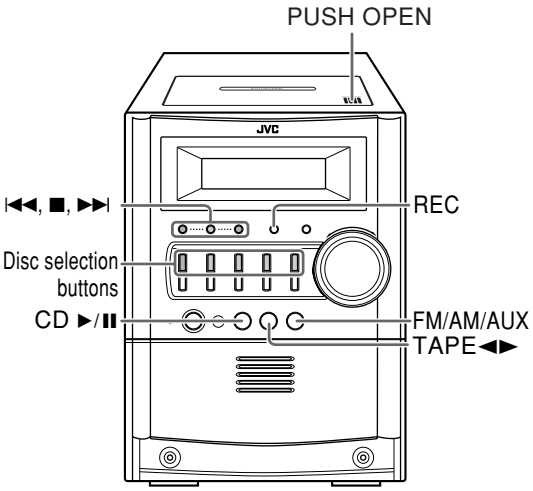
To cancel the prohibition, repeat the same procedure. "UNLOCKED" appears on the display.

Advanced Tape Operations

Remote control



Main unit

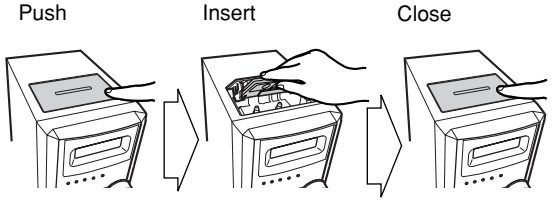


IMPORTANT
It may be unlawful to record or play back copyrighted material without the consent of the copyright owner.

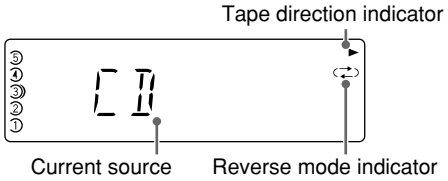
Recording on a Tape

You can use type I tapes for recording.
• To play a tape, see page 12.

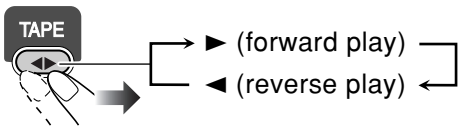
1 Insert a recordable cassette.



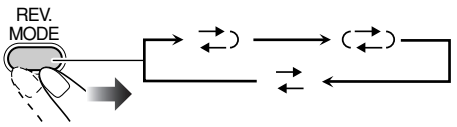
2 Check the tape running direction and Reverse mode settings on the display.



To change the direction



To change the Reverse mode if necessary



( )	To record on both sides. • When starting recording, the Reverse mode ( ) changes to automatically.
	To record on only one side.

3 Select and start playing the source—"FM," "AM," "CD," or "AUX IN."

- When recording a disc, you can also use "Synchronized Disc Recording" (see below).

4 Start recording.

On the main unit

To stop recording:

Synchronized Disc Recording

You can start and stop both disc play and tape recording at the same time.

To record the entire disc

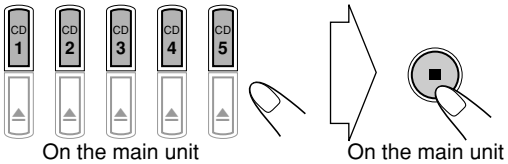
1 Load a disc and insert a recordable cassette.

- If the current playing source is not the CD player, press CD ►/II, then ■.

2 Check the tape running direction and Reverse mode settings on the display.

- See step *2* of "Recording on a Tape" on page 18.

3 Select the disc number you want to start recording from.



On the main unit

On the main unit

4 Start recording.

On the main unit

- If starting recording while playing back a disc, the disc player returns to the beginning of the current track.

To record Program Play or Random Play

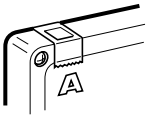
1 Select Program Play (and make a program) or Random Play.
2 Press REC to start recording.

To protect your recording

Cassettes have two small tabs on the back to protect from unexpected erasure or re-recording.

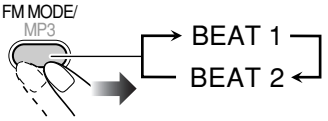
To protect your recording, remove these tabs.

To re-record on a protected tape, cover the holes with adhesive tape.



If the beat are heard while recording an AM broadcast

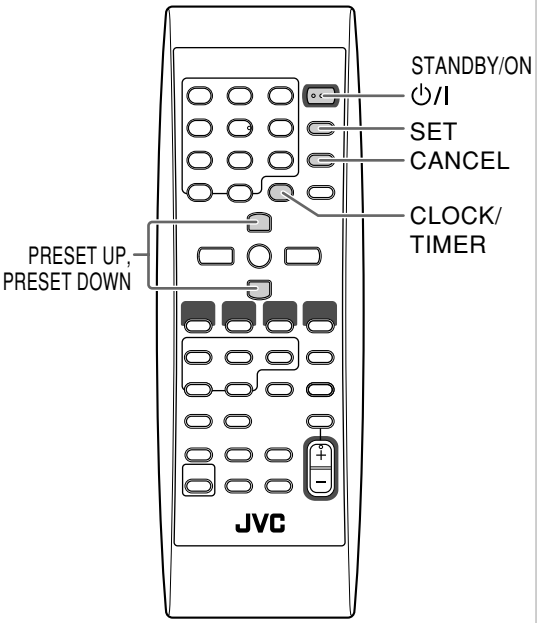
Remote ONLY



- Select "BEAT 1" or "BEAT 2" to reduce the beat.

Timer Operations

Remote control



Setting the Timer

Remote ONLY

Using Daily Timer, you can wake up with music, etc. On the other hand, with Recording Timer, you can make a tape of a radio broadcast automatically.

- You can store three Daily Timer settings and one Recording Timer setting; however, you can activate only one of the four settings above at the same time.
- To exit from the timer setting, press CLOCK/TIMER as required.
- To correct a misentry during the process, press CANCEL. You can return to the previous step.

How Daily Timer actually works

Once the Daily Timer has been set, the timer (⏲) indicator and timer number indicator (1, 2, or 3) are lit on the display. Daily Timer is activated at the same time everyday until the timer is turned off manually (see the next page) or another Daily Timer is activated.

When the on-time comes

The System turns on, tunes in to the selected station, or starts playing the specified disc or the tape.
The volume level is the level when the unit was turned off last time.

- When selecting "P – – –," the last tuned station will be selected for Daily Timer.

About one hour after turning on the System, the System stops it, and turns off (stands by) automatically.

- While Daily Timer is working, the timer (⏲) and timer number indicators (1, 2, or 3) flash on the display.
- The timer setting remains in memory until you change it.
- Without canceling the Daily Timer, you can change the source or adjust the volume after Daily Timer starts playback.

How Recording Timer actually works

When Recording Timer has been set, Timer (⏲) indicator and the REC indicator are lit on the display. Recording Timer works only once.

When the on-time comes

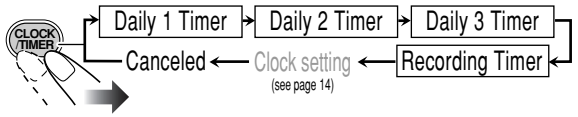
The System turns on, tunes in to the specified station, and starts recording.
The volume level is the level when the unit was turned off last time.

When the off-time comes

The System stops recording, and turns off (stands by).

- The timer setting remains in memory until you change it.

1 Select one of the timer setting modes you want to set—Daily 1 Timer, Daily 2 Timer, Daily 3 Timer, or Recording Timer.

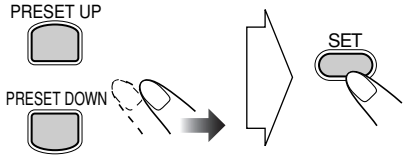


Ex.: When Daily Timer 1 setting mode is selected

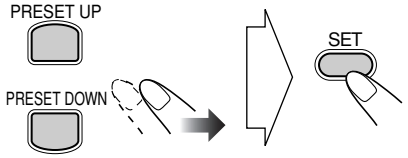
2 Make the timer setting as you want.

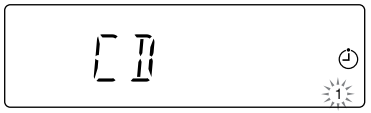
For Daily Timers:

① **Set the hour then the minute for on-time.**



② **Select the playback source—"TUNER FM," "TUNER AM," "CD," "TAPE," or "AUX IN."**

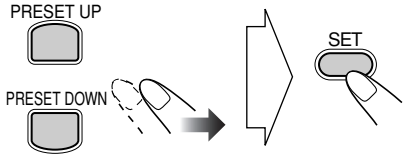




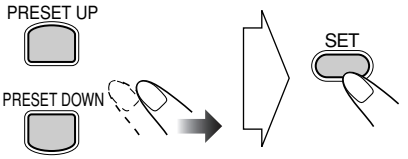
③ **For "TUNER FM" and "TUNER AM":**
Select a preset number or "P– – –" by pressing PRESET UP or PRESET DOWN, then press SET.
For "CD":
Select a disc by pressing PRESET UP or PRESET DOWN, then, press SET.

For Recording Timer:

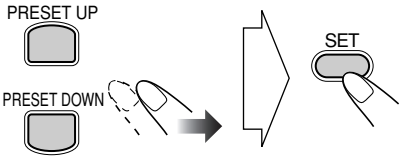
① **Set the hour then the minute for on-time.**



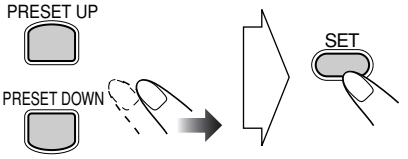
② **Select "TUNER FM" or "TUNER AM."**



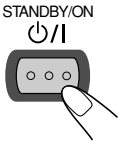
③ **Select preset station number.**



④ **Set the hour then the minute for off-time.**



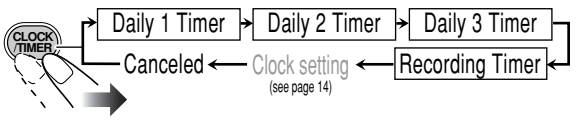
3 Turn off the System (on standby) if you have set the timer with the System turned on.



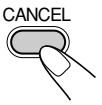
To turn off the Timer after its setting is done

Since Daily Timer is activated at the same time everyday, you may need to cancel it on some particular days.

1 Select the Timer you want to cancel.

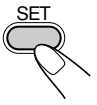


2 Turn off the selected Timer.



The indicator corresponding to the Timer is turned off.

To turn on the Timer again, repeat the above steps and press in step ***2***...



The indicator corresponding to the Timer lights.

Additional Information

Learning More about This System

Daily Operations—Playback (see pages 8 to 12)

Listening to the Radio:
- If you store a new station into an occupied preset number, the previously stored station in that number will be erased.
- When you unplug the AC power cord or if a power failure occurs, the preset stations will be erased in a few days. If this happens, preset the stations again.

Playing Back a Disc:
- When using an 8 cm disc, place it on the inner circle of the disc tray.
- This System cannot play "packet write" discs.
- For MP3 playback...
  - MP3 discs are required a longer readout time than regular CDs. (It depends on the complexity of the group/file configuration.)
  - Some MP3 files cannot be played back and will be skipped. This result from their recording processes and conditions.
  - When making MP3 discs, use ISO 9660 Level 1 or Level 2 for the disc format.
  - This System can play back MP3 files with the extension code <.mp3> (regardless of the letter case—upper/lower).
  - Some characters or symbols will not be shown correctly on the display.
    The maximum character number shown on the display is 32 (without the extension code) for files, and 30 for ID3 tag.
  - It is recommended that you make each MP3 file at a sampling rate of 44.1 kHz and at bit rate of 128 kbps.
  - This System can recognize the total of 500 tracks and of 200 groups. Those exceeding the maximum number cannot be recognized.
  - Playback order of MP3 tracks may be different from the one you have intended while recording. If a folder does not include MP3 tracks, they are ignored.

When discs* are loaded on more than one tray, they are played in sequence as follows:

Ex.: When CD 2 is selected:
CD 2 -> CD 3 -> CD 4 -> CD 5 -> CD 1
(then selects CD 2, and stops)

* When no disc is loaded on the tray, that disc number is skipped.
You can exchange discs while playing or selecting another disc.

Playing Back a Tape:
- It is not recommended to use the C-120 or longer tapes. These tapes easily jams in the pinch rollers and capstans, and may cause characteristic deterioration.

Daily Operations—Sound & Other Adjustments (see pages 13 and 14)

Adjusting the Volume:
- Be sure to turn down the volume before connecting or putting the headphones.

Adjusting the Sound:
- This function also affects the sound through the headphones.
- SOUND TURBO and AHB PRO cannot be used at the same time.

Setting the Clock:
- "0:00" will flash on the display until you set the clock.
- The clock may gain or lose 1 to 2 minutes per month. If this happens, reset the clock.

Turning off the Power Automatically:
- Auto Standby cannot be canceled by the following operations.
  - Changing the display brightness.
  - Adjusting the volume.
  - Adjusting the sound.

Advanced Disc Operations (see pages 15 to 17)

Programming the Playing Order—Program Play:
- If you try to program a 33rd track, "FULL" appears on the display.
- While programming steps...
  Your entry will be ignored if you have tried to program an item number that does not exist on the disc (for example, selecting track 14 on a disc that only has 12 tracks).

Advanced Tape Operations (see pages 18 and 19)

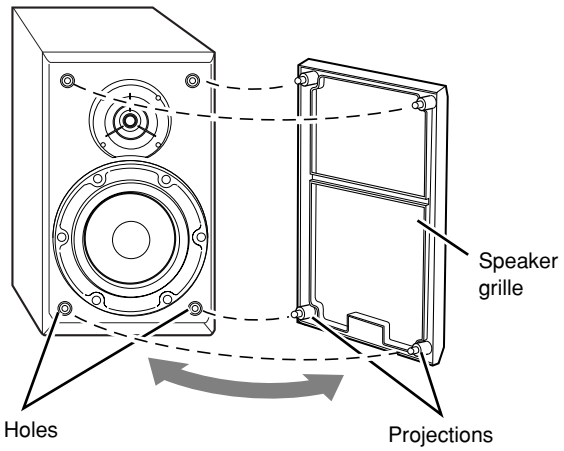
Recording on a Tape:
- The recording level is automatically set correctly. Thus, you can adjust the sound you are actually listening to without affecting the recording level.
- There is leader tape which cannot be recorded onto at the start and end of cassette tapes. Thus, when recording CDs or radio broadcasts, wind the leader tape first to ensure that the recording will be made without any music part lost.
- If you start recording with no cassette inserted, "NO TAPE" appears on the display. If a protected tape has been inserted, "NO REC" appears.
- When using Reverse mode for recording, start recording in the forward (►) direction first; otherwise, recording will stop when only one side (reverse) of the tape is recorded.
- You can also change Reverse mode setting (and) after starting recording.

Synchronized Disc Recording:
- If you open the current disc tray while recording, the recording is stopped.
- When the disc reaches to its end before the tape ends, the unit starts playback next disc and continues recording.

Timer Operations (see pages 20 and 21)

- When you unplug the AC power cord or if a power failure occurs, the timer will be canceled. You need to set the clock first, then the timer again.
- Without stopping the recording, you cannot change the source after Recording Timer starts recording.
- You cannot use the SLEEP timer while activating the Recording timer.

To remove the speaker grilles



Troubleshooting

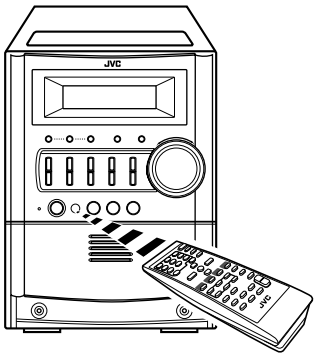
If you are having a problem with your System, check this list for a possible solution before calling for service.

General:

Adjustments or settings are suddenly canceled before you finish.
⇨ There is a time limit. Repeat the procedure again.

Operations are disabled.
⇨ The built-in microprocessor may malfunction due to external electrical interference. Unplug the AC power cord and then plug it back in.

Unable to operate the System from the remote control.
⇨ The path between the remote control and the remote sensor on the System is blocked.
⇨ Point it at the remote sensor on the front panel.
⇨ Signals cannot reach the remote sensor. More closer to the System.
⇨ The batteries are exhausted.



No sound is heard from the speakers.
⇨ Speaker connections are incorrect or loose (see page 6).
⇨ Headphones are connected (see page 8).

Radio Operations:

Hard to listen to broadcasts because of noise (see pages 3 to 6).
⇨ Antennas connections are incorrect or loose.
⇨ The AM loop antenna is too close to the System.
⇨ The FM antenna is not properly extended and positioned.

Disc Operations:

The disc does not play.
⇨ The disc is placed upside down. Place the disc with the label side up.

ID3 Tag on an MP3 disc cannot be shown.
⇨ There are two types of ID3 Tag—Version 1 and Version 2. This System can only show ID3 Tag Version 1.

The disc sound is discontinuous.
⇨ The disc is scratched or dirty.

The disc tray does not open or close.
⇨ The AC power cord is not plugged in.
⇨ Child Lock is in use (see page 17).

"MP3 DISC" appears while programming.
⇨ You have selected an MP3 disc while programming. You cannot make a program using MP3 discs.

Tape Operations:

The cassette holder cannot be opened.
⇨ Power supply from the AC power cord has been cut off while the tape was running. Turn on the System.

Impossible to record.
⇨ Small tabs on the back of the cassette are removed. Cover the holes with adhesive tape (see page 19).

Timer Operations:

Daily Timer and Recording Timer does not work.
⇨ The System has been turned on when the on-time comes. Timer starts working only when the System is turned off.

Maintenance

To get the best performance of the System, keep your discs, and mechanism clean.

Handling discs

- When removing the disc from its case, hold it at the edge while pressing the center hole lightly.
- Do not touch the shiny surface of the disc, or bend the disc.
- Put the disc back in its case after use to prevent warping.
- Be careful not to scratch the surface of the disc.
- Avoid exposure to direct sunlight, temperature extremes, and moisture.

To clean the disc:

Wipe the disc with a soft cloth in a straight line from center to edge.

Handling cassette tapes

- If the tape is loose in its cassette, take up the slack by inserting a pencil in one of the reels and rotate it.
  – If the tape is loose, it may get stretched, cut, or caught in the cassette.
- Be careful not to touch the tape surface.
- Avoid the following places to store the tape—in dusty places, in direct sunlight or heat, in moist areas, on a TV or speaker, or near a magnet.

To keep the best recording and playback sound quality

- Use a cotton swab moistened with alcohol to clean the heads, capstans, and pinch rollers.
- Use a head demagnetizer (available at electronics and audio shops) to demagnetize the heads (when the System turned off).

Cleaning the System

- Stains should be wiped off with a soft cloth. If the System is heavily stained, wipe it with a cloth soaked in water-diluted neutral detergent and wrung well, then wipe clean with a dry cloth.
- Since the System may deteriorate in quality, it become damaged or get its paint peeled off, be careful about the following:
  – DO NOT wipe it with a hard cloth.
  – DO NOT wipe it strongly.
  – DO NOT wipe it with thinner or benzine.
  – DO NOT apply any volatile substance such as insecticides to it.
  – DO NOT allow any rubber or plastic to remain in contact for a long time.

Specifications

Amplifier section

Output Power:
100 W (50 W+50 W) at 6 Ω (10% THD)
Speakers Impedance: 6 Ω – 16 Ω
Audio Input AUX: 400 mV/50 kΩ

Tuner section

FM tuning range: 87.50 MHz – 108.00 MHz
AM tuning range: 531 kHz – 1 710 kHz (at 9 kHz)
530 kHz – 1 710 kHz (at 10 kHz)

CD player section

Dynamic range: 85 dB
Signal-to-noise ratio: 85 dB
Wow and flutter: Immeasurable

Cassette deck section

Frequency response
Normal (type I): 60 Hz – 14 000 Hz
Wow and flutter: 0.15% (WRMS)

General

Power requirement: AC 110 V – 127 V / 220 V – 240 V ~ (adjustable with the voltage selector), 50 Hz/60 Hz
Power consumption: 90 W (at operation)
0.8 W (on standby)
Dimensions (approx.): 175 mm x 232 mm x 412 mm (W/H/D)
Mass (approx.): 6.6 kg

Speakers

Type: 2-way Bass reflex
Speaker units: Woofer: 10 cm cone x 1
Tweeter: 4 cm cone x 1
Impedance: 6 Ω
Dimensions (approx.): 144 mm x 231 mm x 201 mm (W/H/D)
Mass (approx.): 2.0 kg each

Supplied Accessories

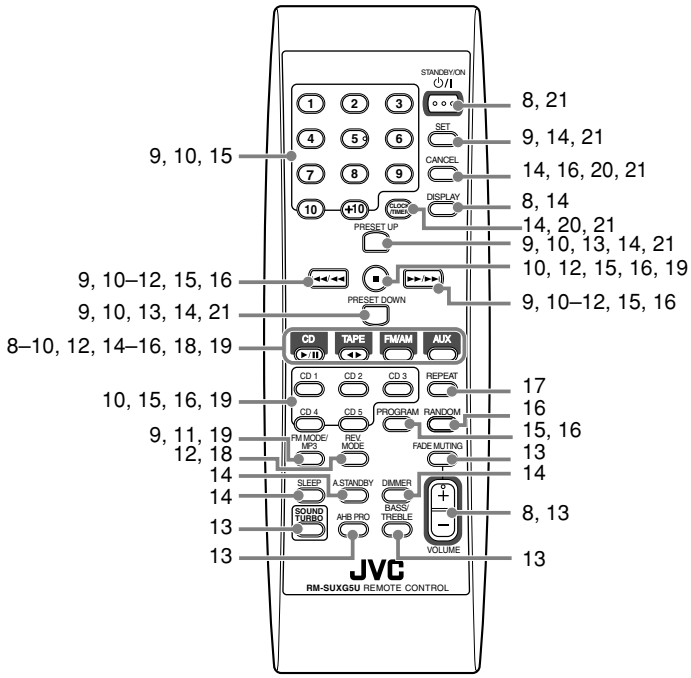
See page 3.

Design and specifications are subject to change without notice.

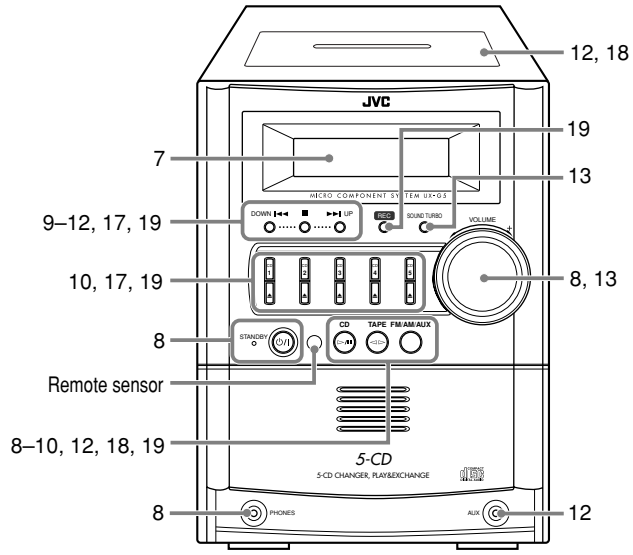
Parts Index

Refer to the pages to see how to use the buttons and controls.

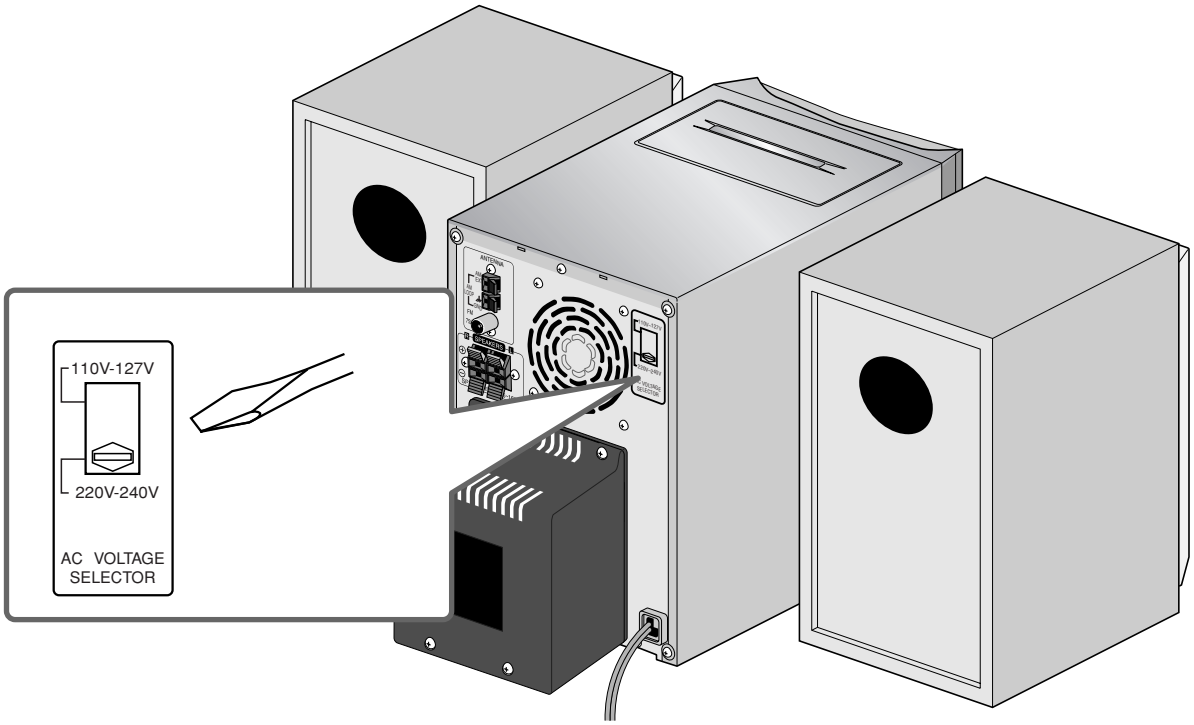
Remote control



Main unit



Mains (AC) Line Instruction (not applicable for Europe, U.S.A., Canada, Australia, and U.K.)



CAUTION for mains (AC) line
BEFORE PLUGGING IN, do check that your mains (AC) line voltage corresponds with the position of the voltage selector switch provided on the outside of this equipment and, if different, reset the voltage selector switch, to prevent from a damage or risk of fire/electric shock.

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